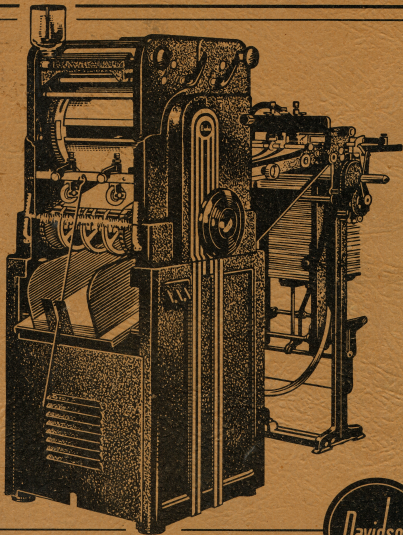


Parts
for
DAVIDSON *dual* DUPLICATOR
MODEL - 221

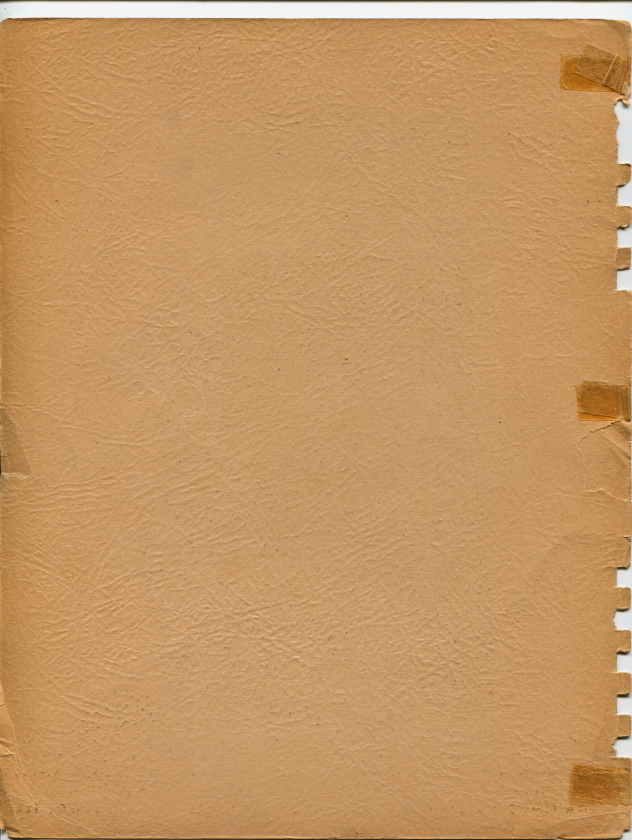


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Duplicated in U. S. A.

DAVIDSON CORPORATION, 1020 W. ADAMS ST., CHICAGO, ILL.



PARTS CATALOG

OF

DAVIDSON DUAL DUPLICATOR MODEL 221

FOURTH EDITION

To determine a part number, refer to the group to which the part relates. Locate the part in the illustration, noting the key letter which designates the part. Locate the key letter in the alphabetically arranged column. The key letter will indicate the part number and description of the part.

When ordering parts, be sure that the piece number and description of the item you need, correspond. Parts that are not shown in the cut are listed in the description following the cut, giving the piece number, explaining that the item is not shown in the photograph.

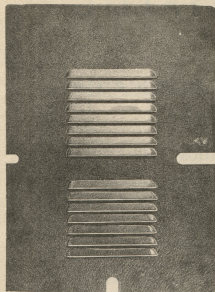
**DO NOT ORDER PARTS BY KEY LETTERS—
USE NUMBERS AND DESCRIPTIONS.**



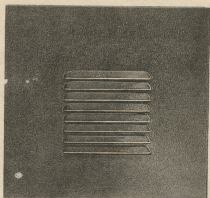
DAVIDSON CORPORATION

**1020 W. ADAMS ST.
CHICAGO, U.S.A.**

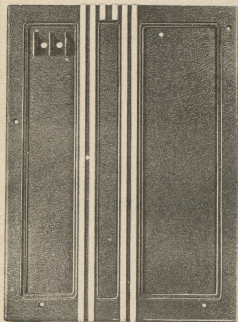
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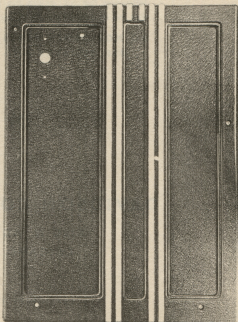
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D



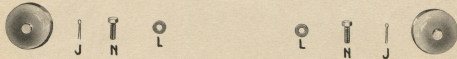
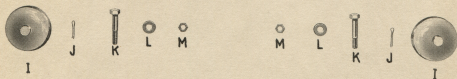
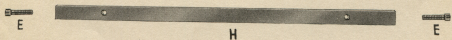
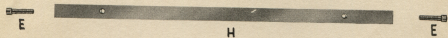
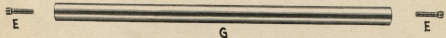
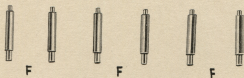
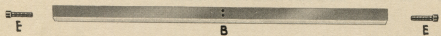
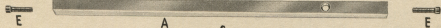
A



B

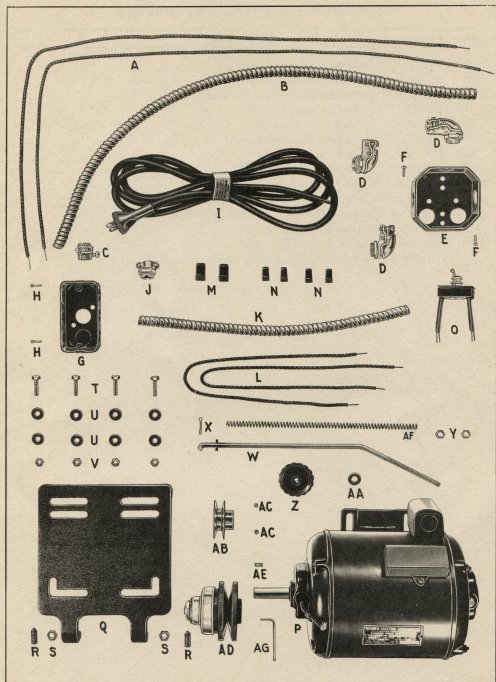
GROUP I - STAND

| Code | Part No. | Description |
|------|----------|----------------------------------|
| A | 221-1 | Stand L.H. Frame |
| B | 221-2 | Stand R.H. Frame |
| C | 221-3A | Stand Front Cover Plate Assembly |
| D | 221-4A | Stand Back Cover Plate Assembly |



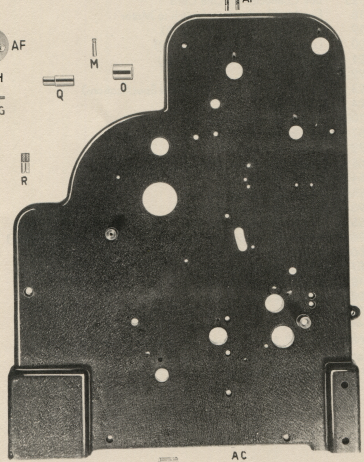
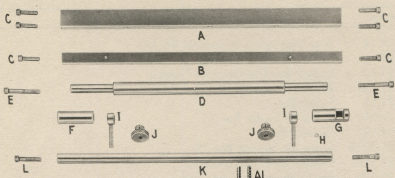
GROUP II - STAND (Continued)

| Code | Part No. | Description |
|------|----------|---|
| A | 221-6 | Stand Upper Front Spreader |
| B | 221-7 | Stand Upper Rear Spreader |
| C | 221-8 | Paper Catcher Support Bar Stop Plate |
| D | 97-915 | Screw for Stop Plate (2) |
| E | 221-1079 | Screw for Tie Rods (10) |
| F | 221-9 | Stand Paper Catcher Pin (6) |
| G | 221-10 | Stand Center Spreader |
| H | 221-11 | Stand Lower Spreader (2) |
| I | 221-12AA | Stand Foot Assembly (4) |
| J | 97-996 | Cotter Pin for Foot (4) |
| K | 221-1078 | Screw for Holding Head to Stand (Front) (2) |
| L | 97-966 | Washer for Screw (4) |
| M | 97-955 | Nut for Screw (2) |
| N | 121-1075 | Screw for Holding Head to Stand (Rear) (2) |



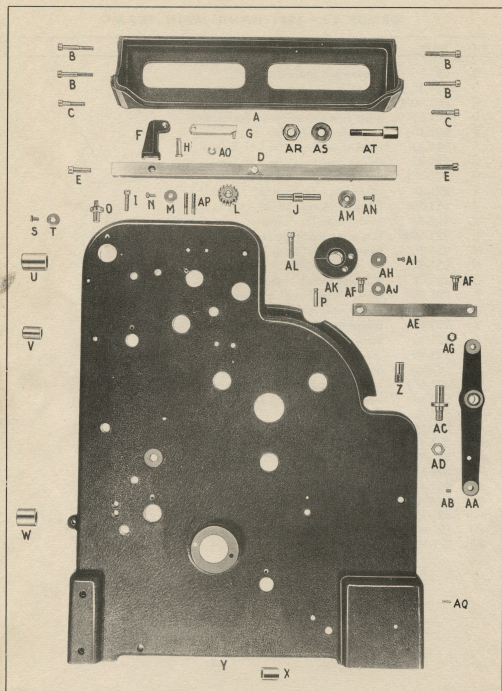
GROUP III — MOTOR AND WIRING

| Code | Part No. | Description |
|------|----------|--|
| A | 221-14 | Wire from Switch to Terminal Box (2) |
| B | 221-15 | Flexible Conduit for Wire |
| C | 221-16 | Straight Box Connector for Conduit |
| D | 121-124 | 90° Box Connector for Conduit (3) |
| E | 221-17 | Switch Box |
| F | 97-1047 | Screw for Switch Box (2) |
| G | 121-127 | Terminal Box |
| H | 221-1088 | Screw for Terminal Box (2) |
| I | 121-129 | Flexible Line Cord and Plug |
| J | 121-125 | Box Connector for Line Cord |
| K | 221-18 | Flexible Conduit from Switch to Motor |
| L | 221-19 | Wire from Switch to Motor (2) |
| M | 221-20 | Large Solderless Connectors (2) |
| N | 221-21 | Small Solderless Connectors (4) |
| O | 221-22 | Switch |
| P | 221-23 | 1/4 H.P. Motor (Give Complete Specifications) |
| Q | 221-24 | Motor Base |
| R | 221-1089 | Screw for Motor Base (2) |
| S | 97-957 | Nut for Screw (2) |
| T | 97-932 | Screw for Motor (4) |
| U | 97-965 | Washer for Motor Screw (8) |
| V | 97-954 | Nut for Screw (4) |
| W | 221-25A | Motor Base Adjusting Rod |
| X | 97-996 | Cotter Pin for Adjusting Rod |
| Y | 97-955 | Nut for Adjusting Rod (2) |
| Z | 221-26 | Motor Shelf Adjusting Screw Knob (Variable Speed Pulley) |
| AA | 97-966 | Washer for Under Knob (2) |
| AB | 221-27 | Motor Pulley (Standard) |
| AC | 97-942 | Set Screw for Pulley (2) |
| AD | 221-28 | Variable Speed Pulley |
| AE | 221-1090 | Set Screw for Variable Speed Pulley |
| | 221-447 | Motor Pulley for 25 Cycle 1425 RPM |
| | 816-688 | 1/3 H.P. Motor (Give Complete Specifications) |
| AF | 221-459 | Hi-Low Motor Shelf Spring |
| AG | A-39 | 1/8" Allen Wrench |



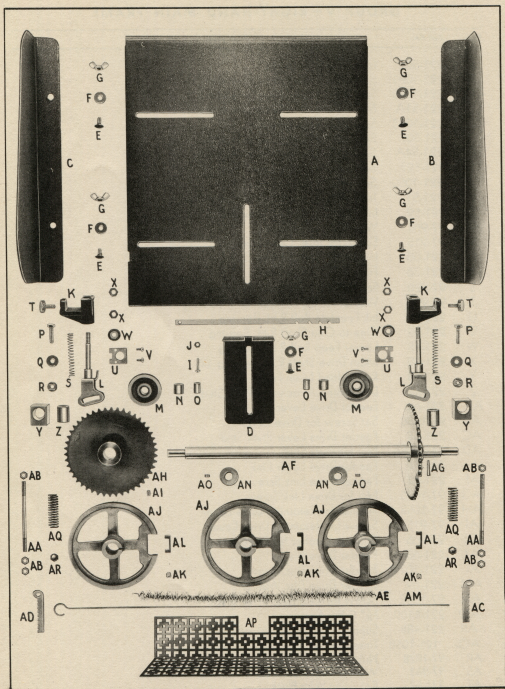
GROUP IV - LEFT-HAND MAIN FRAME

| Code | Part No. | Description |
|------|----------|---|
| A | 221-29 | Paper Plate Support |
| B | 221-30A | Cleanup Attachment Guide Bar Assembly |
| C | 221-1080 | Screw for Tie Rod (6) |
| D | 221-31 | Main Frame Upper Front Spreader |
| E | 221-1081 | Screw for Tie Rod (2) |
| F | 221-32 | Upper Front Spreader R.H. Sleeve |
| G | 221-33 | Upper Front Spreader L.H. Sleeve |
| H | 97-1031 | Set Screw for L.H. Sleeve |
| I | 221-34 A | Ink Fountain Eye Bolt (2) |
| J | 811-605 | Eye Bolt Thumb Nut (2) |
| K | 221-35 | Main Frame Top Spreader |
| L | 221-1082 | Screw for Top Spreader (2) |
| M | 221-36 | Form Roll Arm Spring Pin |
| N | 221-37 | Ink Fountain Roll L.H. Bearing |
| O | 221-38 | Vibrator Shaft L.H. Bearing |
| P | 221-39 | One to One Shaft L.H. Bearing (2) |
| Q | 221-40 | Throwout Pivot Stud |
| R | 221-41 | Dampening Attachment Pivot Pin |
| S | 221-42 | Spring Pin 1 1/8" Long (3) |
| T | 221-43 | Spring Pin 1 1/8" Long |
| U | 97-920 | Screw for Retaining Lower Feed Roll Bearing |
| V | 221-489 | Lower Feed Roll Bearing Washer |
| W | 221-44 | Lower Feed Roll L.H. Bearing |
| X | 221-45 | Detent Pawl Sleeve |
| Z | 221-46 | Relief Ejector Cam Guide Support |
| AA | 221-47 | Relief Ejector Cam Locating Support |
| AB | 221-48 | Blanket Drum Shaft L.H. Bearing |
| AC | 221-49 | Left Hand Main Frame |
| AF | 221-466A | Handle Stop Plate Assembly |
| AG | 97-920 | Screw for Handle Stop Plate |
| AH | 221-1118 | Star Washer |
| AI | 221-488 | Support Bracket Dowel Pin (9) |
| AJ | 121-1058 | Tinsel Holder Stop Pin |



GROUP V — RIGHT-HAND MAIN FRAME

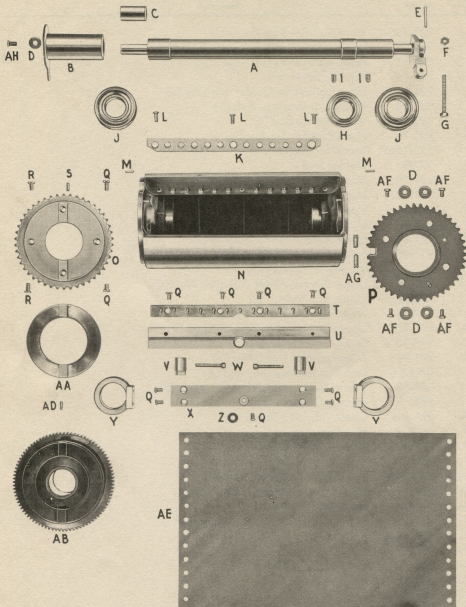
| Code | Part No. | Description |
|------|----------|--|
| A | 221-50 | Main Frame Spreader |
| B | 221-1081 | Screw for Main Frame Spreader (4) |
| C | 221-1082 | Screw for Main Frame Spreader (2) |
| D | 221-51A | Main Frame Rear Spreader Assembly |
| E | 221-1083 | Screw for Rear Spreader (2) |
| F | 221-507 | Segment Adjusting Lever Holder |
| G | 221-54A | Segment Adjusting Lever Assembly |
| H | 221-523 | Segment Adjusting Lever Stud |
| I | 221-1080 | Screw for Lever Holder |
| J | 221-57 | Intermediate Ink Roll Idler Gear Stud |
| L | 221-59 | Intermediate Ink Roll Idler Gear |
| M | 97-961 | Washer for Idler Gear |
| N | 97-915 | Screw for Idler Gear Stud |
| O | 221-60 | Ink Ductor Spring Lever Stud |
| P | 221-36 | Form Roll Arm Spring Pin |
| S | 97-920 | Screw for Ink Fountain R.H. Bearing |
| T | 97-965 | Washer for Ink Fountain R.H. Bearing (2) |
| U | 221-62 | Ink Fountain Roll R.H. Bearing |
| V | 221-39 | One to One Shaft R.H. Bearing |
| W | 221-48 | Lower Feed Roll R.H. Bearing |
| X | 221-39 | Main Drive Shaft R.H. Bearing (2) |
| Y | 221-63 | Right Hand Main Frame |
| Z | 221-41 | Dampening Attachment Pivot Stud |
| AA | 221-64 | Feeder Drive Lever |
| AB | 97-1030 | Set Screw for Drive Lever |
| AC | 221-65 | Feeder Drive Lever Pivot Stud |
| AD | 221-1086 | Nut for Pivot Stud |
| AE | 221-66 | Feeder Drive Lever Link |
| AF | 221-67 | Feeder Drive Link Screw (2) |
| AG | 97-1005 | Nut for Drive Link Screw |
| AH | 97-1053 | Washer for Retaining Drive Lever |
| AI | 97-915 | Screw for Retaining Drive Lever |
| AJ | 97-966 | Spacing Washer for Drive Link |
| AK | 221-68 | Feeder Drive Disc |
| AL | 221-1079 | Feeder Drive Disc Screw |
| AM | 221-69 | Feeder Drive Disc Washer |
| AN | 97-1042 | Screw for Retaining Drive Disc |
| AO | 221-1109 | $\frac{3}{16}$ " C Washer |
| AP | 221-488 | Support Bracket Dowel Pin (2) |
| AQ | 121-1058 | Tinsel Holder Stop Pin |
| AR | 97-1028 | Nut for Retainer Block |
| AS | 97-963 | Washer for Retainer Block |
| AT | 221-52 | Retaining Wire Block |



GROUP VI—PAPER CATCHER AND EJECTOR

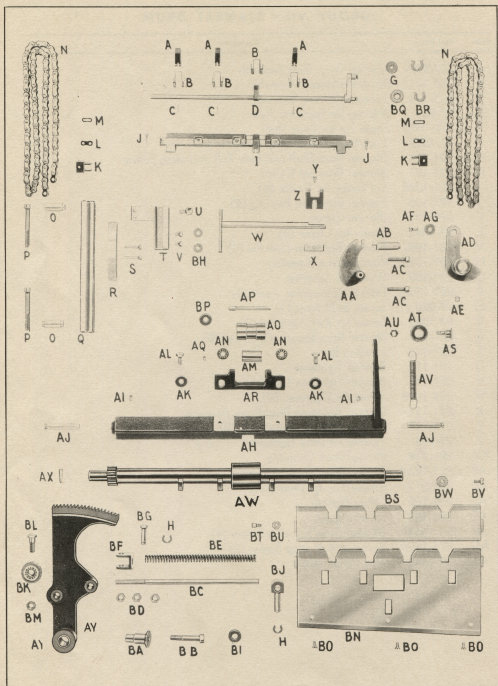
| Code | Part No. | Description |
|------|----------|--|
| A | 221-70A | Paper Catcher Base Assembly |
| B | 221-72 | Paper Catcher R.H. Guide |
| C | 221-73 | Paper Catcher L.H. Guide |
| D | 221-74 | Paper Catcher Stop |
| E | 221-1085 | Carriage Bolt for Guides and Stop (5) |
| F | 97-965 | Washer for Carriage Bolt (5) |
| G | 221-1095 | Wing Nut for Bolt (5) |
| H | 221-75 | Paper Catcher Support Bar |
| I | 133-1065 | Screw for Support Bar |
| J | 97-953 | Nut for Screw |
| K | 221-76 | Upper Ejector Wheel Bracket (2) |
| L | 221-78A | Upper Ejector Wheel Frame Assembly (2) |
| M | 221-79 | Upper Ejector Wheel (2) |
| N | 221-80 | Upper Ejector Wheel Bearing (2) |
| O | 221-81 | Upper Ejector Wheel Bushing (2) |
| P | 97-932 | Screw for Ejector Wheel (2) |
| Q | 97-965 | Washer for Screw (2) |
| R | 221-82 | Upper Ejector Wheel Adjusting Nut (2) |
| S | 97-722 | Jogger Rod Spring (2) |
| T | 97-133 | Ejector Bracket Thumb Screw (2) |
| U | 221-83 | *Upper Ejector Wheel Guide Plate (2) |
| V | 97-910 | Screw for Guide Plate (4) |
| W | 221-84 | Adjusting Rod Thumb Nut (2) |
| X | 97-1005 | Lock Nut for Adjusting Rod (4) |
| Y | 221-85 | Lower Sprocket Shaft Bearing Block (2) |
| Z | 221-39 | Bearing for Block (2) |
| AA | 221-535 | Chain Adjusting Screw (2) |
| AB | 97-1028 | Nut for Adjusting Screw (6) |
| AC | 221-87 | Tinsel R.H. Holder |
| AD | 221-88 | Tinsel L.H. Holder |
| AE | 221-89A | Tinsel Cord on Spring Assembly |
| AF | 221-91A | Lower Ejector Wheel Shaft Assembly |
| AG | 97-990 | Taper Pin for Shaft |
| AH | 221-94A | R.H. Gripper Chain Sprocket Assembly |
| AJ | 221-96 | Lower Ejector Wheel (3) |
| AK | 97-947 | Set Screw for Ejector Wheel (3) |
| AL | 221-97 | Lower Ejector Wheel Key (3) |
| AM | 221-98 | Paper Retainer Wire |
| AN | 221-306 | Set Collar (2) |
| AO | 97-943 | Set Screw for Set Collar (2) |
| AP | 221-504 | Ejector Wheel Guard |
| AQ | 133-92 | Chain Adjusting Spring (2) |
| AR | 221-1145 | Cap Nut (2) |

*NOTE—On Part No. 221-83 Stamped Mark "O" Must Be Placed
Upward for the L.H. Wheel & Downward for the R.H. Wheel.



GROUP VII - BLANKET DRUM

| Code | Part No. | Description |
|------|-----------|--|
| A | 221-99A | Blanket Drum Shaft Assembly |
| B | 221-101AA | Eccentric Sleeve Assembly |
| C | 221-103 | Eccentric Sleeve Bearing |
| D | 97-963 | Washer for Eccentric Sleeve (5) |
| E | 133-1066 | Taper Pin for Drum Shaft |
| F | 97-1028 | Lock Nut for Adjusting Screw |
| G | 221-104 | Blanket Drum Shaft and Form Roll Adjusting Screw |
| H | 221-105 | Blanket Drum Set Collar |
| I | 221-1096 | Set Screw for Collar (2) |
| J | 221-106 | Blanket Drum Ball Bearing (2) |
| K | 221-107 | Blanket Clamp |
| L | 97-1042 | Screw for Clamp (3) |
| M | 221-1097 | Blanket Tightener Limit Pin (2) |
| N | 221-108A | Blanket Drum Assembly |
| O | 221-109 | Drum R.H. Sprocket |
| P | 221-110A | Drum L.H. Sprocket Assembly |
| Q | 97-920 | Screw as Shown (11) |
| R | 97-1042 | Screw for R.H. Sprocket (2) |
| S | 221-111 | Blanket Drum Sprocket's Dowel (2) |
| T | 221-112 | Holding Bar |
| U | 221-113 | Blanket Tightener |
| V | 221-114 | Blanket Tightener Lock Nut (2) |
| W | 221-1098 | Screw for Tightener (2) |
| X | 221-115A | Blanket Tightener Pivot Plate Assembly |
| Y | 221-117 | Blanket Drum Tightener Arm (2) |
| Z | 97-963 | Washer for Drum Tightener |
| AA | 221-119 | Blanket Drum Coupling |
| AB | 221-120A | Blanket Drum Gear Assembly |
| AD | 811-217 | Screw Plug for Drum Gear |
| AE | 221-122 | Offset Blanket |
| AE | 221-123 | Relief Blanket |
| AF | 97-1003 | Blanket Drum Sprocket Screw (4) |
| AG | 221-1156 | Sprocket Adjusting Screw (2) |
| AH | 97-1042 | Thin Head Screw |



GROUP VIII - GRIPPER BAR AND FEED MECHANISM

| Code | Part No. | Description |
|------|-----------|---|
| A | 221-484 | Free Gripper Finger (3) |
| B | 221-127 | Gripper Finger Light Spring (4) |
| C | 221-1121 | Gripper Finger Pin (5) |
| D | 221-480A | Gripper Finger Shaft Assembly |
| G | 221-134 | Gripper Cam Roller |
| H | 221-1101 | Large C Washer |
| I | 221-481A | Gripper Bar Assembly |
| J | 221-139 | Gripper Bar Holding Screw (2) |
| K | 221-140 | Bent Lug Connecting Link (2) |
| L | 221-141 | Connecting Link Side Plate (2) |
| M | 221-142 | Connecting Link Spring Clip (2) |
| N | 221-143 | Gripper Chain (2) |
| O | 221-144 | Gripper Chain Track Support Pin (2) |
| P | 816-1092 | Screw for Track Support Pin (2) |
| Q | 221-478 | Stripper and Roller Bracket Guide |
| R | 221-475 | Offset Ejector Cam |
| S | 97-918 | Screws for Offset Ejector (2) |
| T | 221-473 | Stripper and Roller Bracket |
| U | 97-999 | Screw for Cam Holder |
| V | 97-1003 | Screw for Stripper and Roller Bracket (2) |
| W | 221-477 A | Stripper Finger Arm Assembly |
| X | 221-454 | Stripper Finger Spacer |
| Y | 97-911 | Screw for Stripper Finger |
| Z | 221-498 | Offset Stripper Finger .004 |
| Z | 221-487 | Offset Stripper Finger .017 |
| AA | 221-151A | Receiving Gripper Cam Assembly |
| AB | 221-153 | Receiving Gripper Cam Adjusting Pin |
| AC | 221-1080 | Screw for Cam (2) |
| AD | 221-154A | Relief Ejector Cam Assembly |
| AE | 97-947 | Set Screw for Ejector Cam |
| AF | 97-1024 | Screw for retaining Ejector Cam |
| AG | 97-960 | Washer for retaining Ejector Cam |
| AH | 221-156A | Upper Feed Roll Frame Assembly |
| AI | 97-942 | Set Screw for Frame (2) |
| AJ | 221-157 | Upper Feed Roll Frame Pivot Pin (2) |
| AK | 97-963 | Washer for Feed Roll Bracket (2) |
| AL | 97-1003 | Screw for Feed Roll Bracket (2) |
| AM | 221-159 | Upper Feed Roll Bearing Spacer |
| AN | 97-7717 | Upper Feed Roll Ball Bearing (2) |
| AO | 221-160 | Upper Feed Roll |
| AP | 221-161 | Upper Feed Roll Shaft |

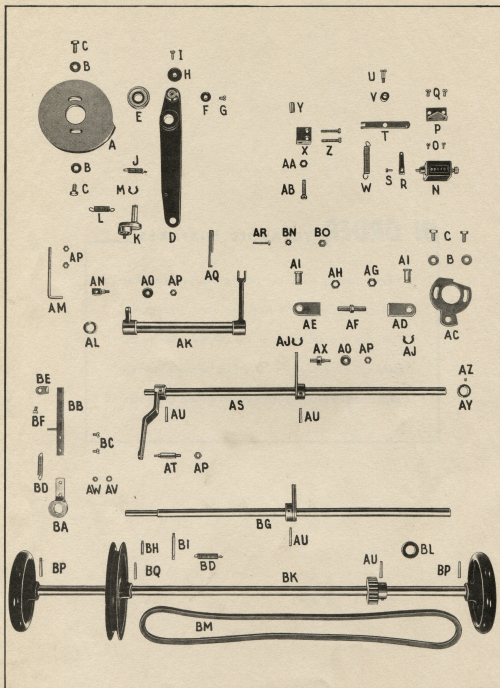
GROUP VIII — GRIPPER BAR AND FEED MECHANISM (Continued)

| Code | Part No. | Description |
|------|----------|--|
| AQ | 97-940 | Set Screw for Shaft |
| AR | 221-162 | Upper Feed Roll Bracket |
| AS | 221-163 | Upper Feed Roll Frame Cam Roller Screw |
| AT | 221-164 | Upper Feed Roll Frame Cam Roller |
| AU | 97-1028 | Nut for Screw |
| AV | 221-165 | Upper Feed Roll Frame Spring |
| AW | 221-166A | Lower Feed Roll Assembly |
| AX | 97-1048 | Taper Pin for Lower Feed Roll |
| AY | 221-169A | Feed Roll Gear Sector Assembly |
| BA | 221-171 | Gear Sector Pivot Stud |
| BB | 221-1078 | Screw for Pivot Stud |
| BC | 221-172 | Gear Sector Spring Rod |
| BD | 97-1005 | Nut for Spring Rod (3) |
| BE | 221-173 | Gear Sector Spring |
| BF | 221-174 | Gear Sector Spring Rod Fork |
| BG | 221-175 | Gear Sector Spring Rod Stud |
| BH | 97-963 | Washer for Support Arm Screw (2) |
| BI | 97-966 | Washer for Clamp Screw |
| BJ | 221-176 | Gear Sector Spring Rod Swivel Block |
| BK | 221-177 | Gear Sector Cam Roller |
| BL | 221-178 | Gear Sector Cam Roller Stud |
| BM | 97-1005 | Nut for Roller Stud |
| BN | 221-179A | Feed Roll Paper Plate Assembly |
| BO | 221-1102 | Screw for Paper Plate (3) |
| BP | 221-227 | Upper Feed Roll Spacer |
| BQ | 221-479 | Gripper Finger Shaft Roller |
| BR | 221-1109 | Small C Washer |
| BS | 221-493 | Feed Roll Auxiliary Paper Plate |
| BT | 221-497 | Feed Roll Auxiliary Paper Plate Stud |
| BU | 97-953 | Nut for Stud |
| BV | 97-920 | Screw for Auxiliary Paper Plate |
| BW | 97-954 | Nut for Screw |

IN ORDER TO AVOID MISTAKES

When ordering parts, be sure that the piece number and description of the item you need, correspond.

Parts that are not shown in the cut are listed in the description following the cut, giving the piece number; explaining that the item is not shown in the photograph.



GROUP IX—THROWOUT—COUNTER AND MAIN DRIVE SHAFT

| Code | Part No. | Description |
|------|----------|---|
| A | 221-180 | Throwout Cam |
| B | 97-963 | Washer (4) |
| C | 97-1003 | Screw (4) |
| D | 221-181A | Throwout Cam Lever Assembly |
| E | 221-183 | Throwout Lever Cam Roller |
| F | 97-961 | Washer for Cam Roller |
| G | 97-1024 | Screw for Cam Roller |
| H | 97-1053 | Washer for Cam Lever |
| I | 97-915 | Screw for Cam Lever |
| J | 221-184 | Throwout Lever Spring |
| K | 221-185A | Throwout Lever Stop Roller Assembly |
| L | 221-189 | Throwout Lever Stop Roller Spring |
| M | 221-1101 | C Washer for Stop Roller |
| N | 221-190 | Counter |
| O | 97-1025 | Screw for Counter (2) |
| P | 221-191 | Counter Bracket |
| Q | 97-1024 | Screw for Counter Bracket (2) |
| R | 221-192 | Counter Lever |
| S | 221-1103 | Screw for Lever |
| T | 221-193 | Counter Actuating Lever |
| U | 221-194 | Counter Lever Shoulder Screw |
| V | 221-195 | Counter Lever Spacer Collar |
| W | 221-196 | Counter Lever Spring |
| X | 221-197 | Actuating Lever Stop Bracket |
| Y | 221-198 | Actuating Lever Stop |
| Z | 221-1104 | Screw for Stop Bracket (2) |
| AA | 97-1028 | Nut for Screw |
| AB | 97-928 | Adjusting Screw for Stop Bracket |
| AC | 221-199 | Blanket Drum Latch |
| AD | 221-200 | Throwout Link Fork—R.H. Tap |
| AE | 221-201 | Throwout Link Fork—L.H. Tap |
| AF | 221-202 | Throwout Link Adjusting Screw |
| AG | 97-1005 | Nut for Adjusting Screw—R.H. Tap |
| AH | 221-1105 | Nut for Adjusting Screw—L.H. Tap |
| AI | 221-203 | Throwout Link Pin (2) |
| AJ | 221-1101 | Throwout Link Pin "C" Washer (2) |
| AK | 221-204A | Detector Arm & Actuating Lever Assembly |
| AL | 221-207 | Detector Arm Shaft Spacer |
| AM | 221-208 | Detector Connecting Link |
| AN | 221-209 | Connecting Link Swivel Block |
| AO | 97-960 | Washer for Connecting Link Swivel Block (2) |
| AP | 97-953 | Nut for Connecting Link & Swivel Block (5) |

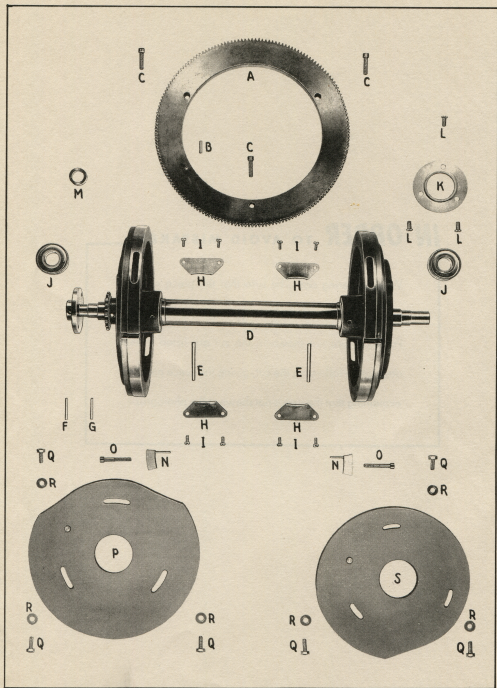
GROUP IX—THROWOUT—COUNTER AND MAIN DRIVE SHAFT (Continued)

| Code | Part No. | Description |
|------|----------|--|
| AQ | 221-210 | Detector |
| AR | 97-909 | Detector Pivot Screw |
| AS | 221-211A | Detector Arm Shaft Assembly |
| AT | 221-215 | Connecting Link Pivot Stud |
| AU | 97-982 | Detector Arm Shaft Taper Pin (7) |
| AV | 97-960 | Washer for Connecting Link Pivot Stud |
| AW | 221-1107 | Nut for Connecting Link Pivot Stud |
| AX | 221-216 | Counter Detector Arm Pick Up Pin |
| AY | 97-130 | Set Collar |
| AZ | 97-940 | Set Collar Screw |
| BA | 221-217 | Detent Pawl Hub |
| BB | 221-218A | Detent Pawl Assembly |
| BC | 97-911 | Screws for Detent Pawl (2) |
| BD | 221-220 | Detent Pawl Spring |
| BE | 221-221 | Detent Pawl Stop |
| BF | 97-1024 | Screw for Detent Pawl Stop |
| BG | 221-222A | Latch Shaft Assembly |
| BH | 221-225 | Detector Latch Shaft Outer Spring Stud |
| BI | 221-226 | Detector Latch Shaft Inner Spring Stud |
| BK | 221-228A | Main Drive Shaft Assembly |
| BL | 221-232 | Main Drive Gear Spacer |
| BM | 221-233 | Main Drive Belt |
| BN | 221-1163 | Star Washer |
| BO | 221-1107 | Detector Pivot Screw Nut |
| BP | 97-1142 | Taper Pin |
| BQ | 97-1038 | Taper Pin |

IN ORDER TO AVOID MISTAKES

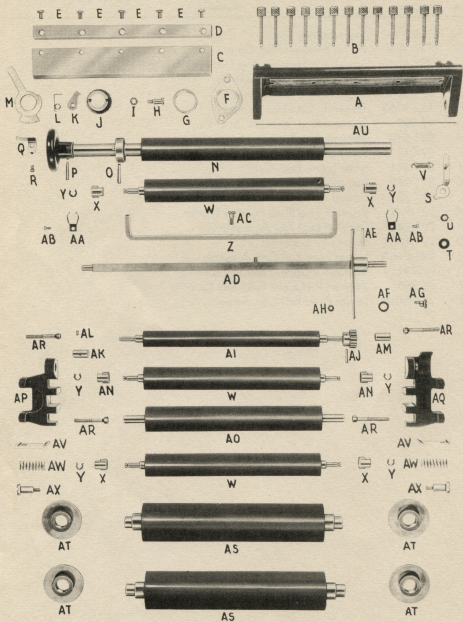
When ordering parts, be sure that the piece number and description of the item you need, correspond.

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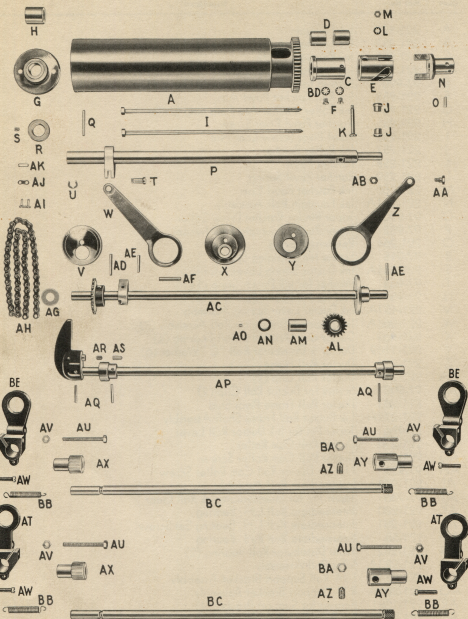
GROUP X - SEGMENT RING ASSEMBLY

| Code | Part No. | Description |
|------|----------|---|
| A | 221-234 | Segment Ring Gear |
| B | 133-1062 | Pin for Segment Ring Gear |
| C | 221-1080 | Screws for Segment Ring Gear (3) |
| D | 221-235A | Segment Ring Shaft Assembly |
| E | 221-1108 | Segment Ring Taper Pin (2) |
| F | 133-1066 | Throwout Cam Hub Taper Pin |
| G | 97-990 | Segment Ring Sprocket Taper Pin |
| H | 221-240 | Segment Nut Retaining Spring (4) |
| I | 97-915 | Screws for Segment Nut Retaining Spring (8) |
| J | 221-241 | Main Frame Bearing (2) |
| K | 221-242 | Segment Ring Shaft Bearing Retainer |
| L | 97-920 | Screws for Retainer (3) |
| M | 221-243 | Segment Ring Shaft Bearing Spacer |
| N | 221-244A | Segment Lock Nut Assembly (4) |
| O | 221-1084 | Screws for Lock Nut (2) |
| P | 221-246A | Upper Feed Roll Cam Assembly |
| Q | 97-931 | Screws for Upper Feed Roll Cam (6) |
| R | 97-963 | Washers for Upper Feed Roll Cam (6) |
| S | 221-248A | Lower Feed Roll Cam Assembly |



GROUP XI - INK FOUNTAIN

| Code | Part No. | Description |
|------|----------|--|
| A | 221-249 | Ink Fountain |
| B | 221-250 | Ink Fountain Adjusting Screws (13) |
| C | 221-251 | Ink Fountain Blade |
| D | 221-252 | Ink Fountain Blade Clamp |
| E | 97-920 | Screws for Ink Fountain Blade Clamp (5) |
| F | 221-253 | Ink Roll Ratchet Pawl Arm |
| G | 221-254 | Ink Roller Ratchet Arm Retaining Collar |
| H | 221-255 | Ratchet Pawl Pivot Screw |
| I | 221-256 | Pawl Pivot Screw Lock Nut |
| J | 221-257 | Ink Roller Ratchet |
| K | 221-258 | Ratchet Pawl |
| L | 221-259 | Ratchet Pawl Spring |
| M | 221-260 | Ink Ratchet Pawl Cam |
| N | 221-261A | Ink Fountain Roll Assembly |
| O | 97-990 | Taper Pin for Ratchet Drive Collar |
| P | 97-982 | Taper Pin for Fountain Handwheel |
| Q | 221-264 | Retaining Spring |
| R | 97-915 | Screw for Retaining Spring |
| S | 221-265A | Ink Ductor Spring Lever Assembly |
| T | 97-963 | Washer for Ink Ductor Spring Lever |
| U | 97-954 | Nut for Ink Ductor Spring Lever |
| V | 221-457A | Ink Ductor Lever Spring Assembly |
| W | 221-268A | Ink Ductor & Distributor Roll Assembly (3) |
| X | 221-269 | Ductor and Distributor Roll Bearing (4) |
| Y | 221-1109 | Ductor & Distributor Roll "C" Washer (6) |
| Z | 221-270 | Ductor Roll Frame |
| AA | 221-271 | Ductor Roll Clip (2) |
| AB | 97-908 | Screw for Ductor Roll Clip (2) |
| AC | 811-223 | Ductor Roll Frame Pivot Stud |
| AD | 221-272A | Ink Ductor Roll Frame Shaft Assembly |
| AE | 97-986 | Taper Pin for Ink Ductor Roll Lever |
| AF | 221-276 | Ductor Roll Cam Roller |
| AG | 221-277 | Ductor Roll Cam Roller Screw |
| AH | 97-953 | Nut for Ductor Roll Cam Roller Screw |
| AI | 221-278A | Intermediate Roll Assembly |
| AJ | 97-986 | Taper Pin for Intermediate Ink Roll Gear |
| AK | 221-280 | Intermediate Roll L.H. Bearing |
| AL | 221-281 | Intermediate Roll L.H. Bearing Set Screw |
| AM | 221-58 | Intermediate Roll R.H. Bearing |
| AN | 221-282 | Front Distributor Roll Bearing (2) |
| AO | 221-283A | Idle Roll Assembly |
| AP | 221-284A | L.H. Roll Support Bracket Assembly |
| AQ | 221-285A | R.H. Support Bracket Assembly |
| AR | 221-1081 | Screws for Support Bracket (4) |
| AS | 221-286A | Ink Form Roll Assembly (2) |
| AT | 221-288A | Form Roller Cam Disc Assembly (4) |
| AU | 221-440 | Fountain Screw Holding Wire |
| AV | 221-449 | Bracket Retaining Plate (2) |
| AW | 97-7738 | Bracket Retaining Plate Spring (2) |
| AX | 221-194 | Bracket Retaining Plate Stud (2) |



GROUP XII - INK FOUNTAIN (Continued)

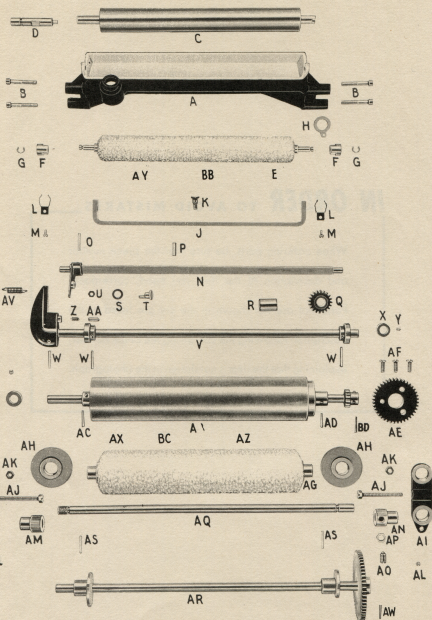
| Code | Part No. | Description |
|------|----------|--|
| A | 221-290A | Vibrator Roll Assembly |
| C | 221-293 | Vibrator Cam Sleeve Support |
| D | 221-294 | Vibrator Cam Sleeve Support Bearing (2) |
| E | 221-295 | Vibrator Roll Cam |
| F | 121-1059 | Screws for Vibrator Roll Cam (2) |
| G | 221-296 | Vibrator Roll L.H. End |
| H | 221-297 | Vibrator Roll L.H. End Bearing |
| I | 221-298A | Vibrator Tie Bolt Assembly (2) |
| J | 221-300 | Vibrator Roll Cam Roller (2) |
| K | 221-301 | Vibrator Roll Cam Roller Shaft |
| L | 221-1117 | Lock Washer for Cam Roller Shaft |
| M | 97-953 | Nut for Cam Roller Shaft |
| N | 221-302A | Vibrator Roll Cam Guide Assembly |
| O | 121-1073 | Pin for Vibrator Roll Cam Guide |
| P | 221-304A | Vibrator Roll Shaft Assembly |
| Q | 97-983 | Taper Pin for Vibrator Roll Rocker Lever |
| R | 221-306 | Vibrator Shaft Set Collar |
| S | 97-943 | Set Screw for Vibrator Roll Shaft Set Collar |
| T | 221-307 | Vibrator Link Pin |
| U | 221-1101 | "C" Washer for Vibrator Link Pin |
| V | 221-308 | Ink Roll Connecting Link Retainer Plate |
| W | 221-309 | Vibrator Roll Connecting Link |
| X | 221-310 | Ink Roll and Vibrator Roll Eccentric |
| Y | 221-311 | Vibrator Roll Connecting Link Retainer Plate |
| Z | 221-312 | Ink Roll Connecting Link |
| AA | 221-313 | Ink Roll Connecting Link Shoulder Screw |
| AB | 97-1028 | Nut for Connecting Link Screw |
| AC | 221-314A | One-to-One Shaft Assembly |
| AD | 97-982 | Taper Pin for One-to-One Shaft Sprocket |
| AE | 97-983 | Taper Pin for One-to-One Shaft Lever & Cam (2) |
| AF | 221-316 | Eccentric Drive Arm Pin |
| AG | 221-320 | One-to-One Shaft Sprocket Spacing Collar |
| AH | 221-321 | One-to-One Shaft Drive Chain |
| AI | 221-322 | Connecting Link Pin Plate |
| AJ | 221-141 | Connecting Link Side Plate |
| AK | 221-142 | Connecting Link Spring Clip |
| AL | 221-323 | Vibrator Roll Idler Gear |
| AM | 221-323A | Vibrator Roll Idler Gear with Bearing Assembly |
| AN | 221-39 | Vibrator Roll Idler Gear Bearing |
| AO | 97-130 | Set Collar |
| AP | 97-940 | Set Collar Set Screw |
| AP | 221-324A | Ink Form Roll Cam Shaft Assembly |

GROUP XII — INK FOUNTAIN (Continued)

| Code | Part No. | Description |
|------|----------|---|
| AQ | 97-1038 | Taper Pin for Cam and Handle (3) |
| AR | 221-437 | Handle Plunger Spring |
| AS | 221-438 | Handle Plunger |
| AT | 221-460 | Inner Ink Form Roll Bracket (2) |
| AU | 221-104 | Ink Form Roller Lifter Bracket Screw (4) |
| AV | 221-456 | Nut for Lifter Bracket Screw (4) |
| AW | 97-1139 | Fillister Head Screw for Lifter Bracket (4) |
| AX | 221-463 | Ink Form Roll R.H. Eccentric (2) |
| AY | 221-462 | Ink Form Roll L.H. Eccentric (2) |
| AZ | 221-332A | Form Roll Shaft Retainer (2) |
| BA | 97-1046 | Form Roll Spring and Ball Housing Nut (2) |
| BB | 221-336 | Ink Form Roll Spring (4) |
| BC | 221-337 | Ink Form Roll Shaft (2) |
| BD | 221-1117 | Vibrator Roll Cam Screw Star Washer (2) |
| BE | 221-461 | Outer Ink Form Roll Bracket (2) |

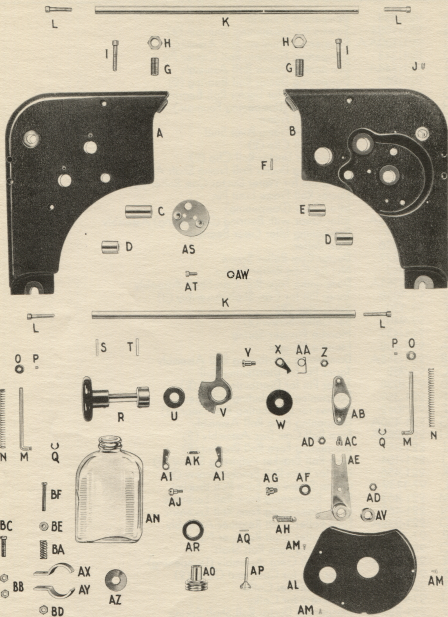
IN ORDER TO AVOID MISTAKES

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GROUP XIII—DAMPENING UNIT

| Code | Part No. | Description |
|------|-----------|---|
| A | 221-338 | Dampening Fountain |
| B | 221-1084 | Screws for Dampening Fountain (4) |
| C | 221-339AA | Dampening Fountain Roll Assembly |
| D | 221-343 | Dampening Fountain Roll Center Pin |
| E | 221-344A | Dampening Ductor Roll Assembly |
| F | 221-269 | Dampening Ductor Roll Bearing (2) |
| G | 221-1109 | "C" Washer for Ductor Roll Bearing (2) |
| H | 221-347 | Spring Clip (Dampening Fountain) |
| J | 221-270 | Ductor Roll Frame |
| K | 811-223 | Ductor Roll Frame Pivot Stud |
| L | 221-271 | Ductor Roll Clip (2) |
| M | 97-908 | Screws for Ductor Roll Clip (2) |
| N | 221-348A | Dampening Ductor Roll Frame Shaft Assembly |
| O | 97-987 | Taper Pin for Water Ductor Cam Roller Lever |
| P | 221-273 | Ductor Roll Frame Limit Pin |
| Q | 221-350 | Idler Gear (Dampening) |
| | 221-350A | Idler Gear with Bearing (Dampening) Assembly |
| R | 221-39 | Dampening Idler Gear Bearing |
| S | 221-276 | Cam Roller |
| T | 221-277 | Ductor Cam Roller Screw |
| U | 97-953 | Nut for Cam Roller Screw |
| V | 221-351A | Dampening Form Roll Cam Shaft Assembly |
| W | 97-1038 | Taper Pin for Cam Shaft Assembly (3) |
| X | 97-130 | Set Collar (2) |
| Y | 97-940 | Set Collar Screw (2) |
| Z | 221-437 | Handle Plunger Spring |
| AA | 221-438 | Handle Plunger |
| AB | 221-355A | Dampening Distributing Roll Assembly |
| AC | 97-982 | Taper Pin for Distributing Roll |
| AD | 97-1038 | Taper Pin for Distributing Roll (2) |
| AE | 221-359 | Dampening Distributing Roll Gear |
| AF | 97-1042 | Screws for Distributing Roll Gear (3) |
| AG | 221-450A | Dampening Form Roll Assembly |
| AH | 221-288A | Form Roll Cam Disc Assembly (2) |
| AI | 221-455 | Dampening Form Roll Bracket (2) |
| AJ | 221-104 | Form Roll Bracket Adjusting Screw (2) |
| AK | 221-456 | Nut for Form Roll Bracket Screw (2) |
| AL | 97-1139 | Clamp Screw for Form Roll Bracket |
| AM | 221-463 | R. H. Dampening Form Roll Eccentric |
| AN | 221-462 | L. H. Dampening Form Roll Eccentric |
| AO | 221-332A | Form Roller Shaft Retainer Assembly |
| AP | 97-1046 | Form Roller Shaft Retainer Nut |
| AQ | 221-365 | Dampening Form Roll Shaft |
| AR | 221-370A | Cam Shaft Gear Assembly (Dampening) |
| AS | 97-1038 | Taper Pins for Cams and Gear (2) |
| AT | 221-371 | Drive Shaft Set Collar |
| AU | 97-942 | Set Screw for Collar |
| AV | 221-329 | Dampening Ductor Roll Shaft Spring |
| AW | 97-982 | Taper Pin for Cam Shaft Gear Assembly (Dampening) |
| AX | 221-508 | Molomite Dampening Form Roll Cover |
| AY | 221-509 | Molomite Dampening Ductor Roll Cover |
| AZ | 221-435 | Aquorite Dampening Form Roll Cover |
| BB | 221-434 | Aquorite Dampening Ductor Roll Cover |
| BC | 221-452 | Baseorite Cover |
| BD | 221-1155 | Taper Pin |



GROUP XIV - DAMPENING UNIT (Continued)

| Code | Part No. | Description |
|------|----------|---|
| A | 221-372 | Dampenning Attachment L.H. Frame |
| B | 221-373 | Dampenning Attachment R.H. Frame |
| C | 221-374 | Dampenning Distributing Roll L.H. Bearing |
| D | 221-39 | One-to-One Cam Shaft Bearing (2) |
| E | 221-375 | Dampenning Distributing Roll R.H. Bearing |
| F | 221-158 | Dampenning Ductor Spring Pin |
| G | 221-376 | Dampenning Attachment Adjusting Screw (2) |
| H | 811-203 | Dampenning Attachment Adjusting Screw Nut (2) |
| I | 221-1084 | Screws for Dampenning Attachment (2) |
| J | 97-943 | Set Screw (Fountain Roll Center Pin) |
| K | 221-377 | Dampenning Attachment Cross Rod (2) |
| L | 221-1082 | Screws for Cross Rods (4) |
| M | 221-378 | Dampenning Form Roll Spring Rod (2) |
| N | 221-379 | Dampenning Form Roll Spring (2) |
| O | 221-380 | Dampenning Form Roll Spring Set Collar (2) |
| P | 97-940 | Set Screw for Spring Set Collar (3) |
| Q | 221-1109 | "C" Washer for Spring Rod (2) |
| R | 221-381A | Dampenning Roll Drive Shaft Assembly |
| S | 97-982 | Taper Pin for Handwheel |
| T | 97-983 | Taper Pin for Ratchet Set Collar |
| U | 221-383 | Ratchet Pawl Cam Spacer |
| V | 221-384 | Ratchet Pawl Cam |
| W | 221-385 | Ratchet |
| X | 221-358 | Dampenning Roll Ratchet Pawl |
| Y | 221-255 | Ratchet Pawl Stud |
| Z | 221-256 | Pawl Pivot Screw Lock Nut |
| AA | 221-259 | Ratchet Pawl Spring |
| AB | 221-388 | Ratchet Pawl Lever |
| AC | 221-389 | Ratchet Operating Lever Stud |
| AD | 97-1028 | Nut for Operating Lever Stud (2) |
| AE | 221-390A | Ratchet Operating Arm Assembly |
| AF | 221-276 | Fountain Roll Cam Roller |
| AG | 221-392 | Fountain Roll Cam Roller Screw |
| AH | 221-458A | Ratchet Operating Arm Spring |
| AI | 221-393 | Ratchet Cam Retaining Pawl (2) |
| AJ | 221-394 | Ratchet Cam Retaining Pawl Pivot Screw |
| AK | 221-395 | Ratchet Cam Retaining Pawl Spring |
| AL | 221-396 | Gear Cover Plate |
| AM | 97-1025 | Screws for Gear Cover Plate (3) |
| AN | 221-397 | DampOrite Bottle |
| AO | 221-398A | DampOrite Valve Barrel Assembly |
| AP | 221-400 | DampOrite Valve Plunger |
| AQ | 221-401 | DampOrite Valve Plunger Pin |
| AR | 221-402 | DampOrite Bottle Sealing Washer |
| AS | 221-466A | Handle Stop Plate |
| AT | 97-920 | Screw for Handle Stop Plate |
| AV | 97-130 | Set Collar |
| AW | 221-1118 | Star Washer |

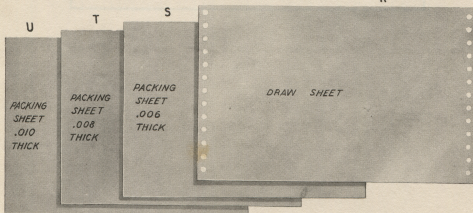
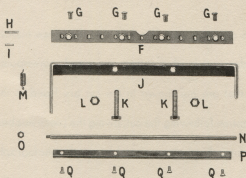
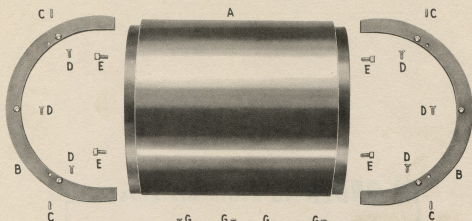
GROUP XIV - DAMPENING UNIT (Continued)

| Code | Part No. | Description |
|------|----------|---|
| AX | 221-499 | Upper Brake Shoe |
| AY | 221-500 | Lower Brake Shoe |
| AZ | 221-383 | Ratchet Pawl Cam Spacer |
| BA | 133-136 | Scoring Roll Adjustable Pressure Spring |
| BB | 97-224 | Detector Detaining Spring Screw Nut (2) |
| BC | 97-928 | 1/4-28x1 Fillister Head Screw |
| BD | 97-953 | Hexagon Nut |
| BE | 97-960 | Steel Washer |
| BF | 97-1054 | Fillister Head Screw |

IN ORDER TO AVOID MISTAKES

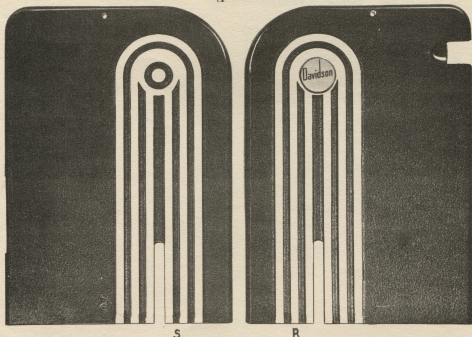
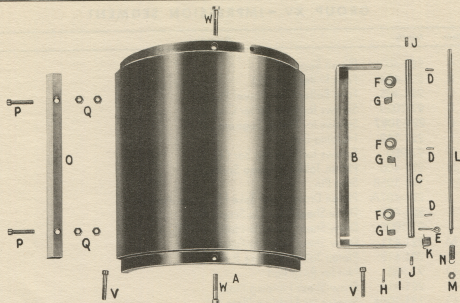
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GROUP XV - IMPRESSION SEGMENT

| Code | Part No. | Description |
|------|----------|--|
| A | 221-403 | Platen Segment |
| B | 221-404 | Form Roller Cam (2) |
| C | 221-405 | Form Roller Cam Dowel Pin (4) |
| D | 97-1039 | Screws for Form Roller Cam (6) |
| E | 221-1087 | Screws for Platen Segment (4) |
| F | 221-112 | Holding Bar |
| G | 97-920 | Screws for Holding Bar (4) |
| H | 221-406 | Platen Take Up Frame Spring Pin |
| I | 121-1058 | Stop Pin |
| J | 221-407A | Platen Draw Sheet Take Up Frame Assembly |
| K | 221-409 | Draw Sheet Take Up Screw (2) |
| L | 97-1005 | Draw Sheet Take Up Half Nut (2) |
| M | 221-411 | Draw Sheet Take Up Frame Spring |
| N | 221-412 | Platen Take Up Frame Pivot Rod |
| O | 97-953 | Nut for Pivot Rod |
| P | 221-413 | Draw Sheet Holding Plate |
| Q | 133-1064 | Screws for Holding Plate (4) |
| R | 221-414 | Draw Sheet |
| S | 221-415 | .006 Packing Sheet (4) |
| T | 221-416 | .008 Packing Sheet (4) |
| U | 221-417 | .010 Packing Sheet (4) |



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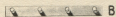
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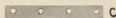
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GROUP XVI - PLATE SEGMENT AND COVERS

| Code | Part No. | Description |
|------|----------|---|
| A | 221-418 | Plate Segment |
| B | 221-419 | Plate Take Up Frame |
| C | 221-420 | Plate Clamp Eccentric Roller Shaft |
| D | 221-421 | Plate Clamp Eccentric Roller Pin (3) |
| E | 221-422 | Plate Clamp Release |
| F | 221-423 | Plate Clamp Eccentric Roller (3) |
| G | 221-424 | Plate Clamp Eccentric Roller Spring (3) |
| H | 221-406 | Plate Takeup Frame Spring Pin |
| I | 121-1058 | Stop Pin |
| J | 811-217 | Pivot Screw (2) |
| K | 221-425 | Eccentric Roller Shaft Spring |
| L | 221-412 | Plate Takeup Frame Pivot Rod |
| M | 97-953 | Nut for Plate Clamp Pivot Rod |
| N | 221-411 | Plate Take Up Frame Spring |
| O | 221-426 | Plate Anchor Bar |
| P | 221-1129 | Screws for Plate Anchor Bar (2) |
| Q | 97-1028 | Nuts for Plate Anchor Bar Screws (4) |
| R | 221-427 | L.H. Main Frame Cover |
| | 121-116 | Name Plate |
| | 97-952 | Nut for Name Plate |
| S | 221-428 | R.H. Main Frame Cover |
| T | 221-429 | Main Frame Cover Lug (2) |
| U | 97-915 | Screws for Main Frame Cover Lug (4) |
| V | 221-1084 | Screws for Main Frame Cover (2) |
| W | 221-1084 | Screw for Lock Nut (2) |



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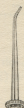
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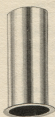
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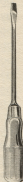
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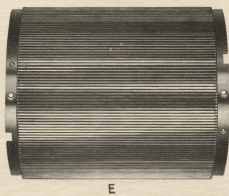
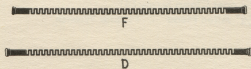
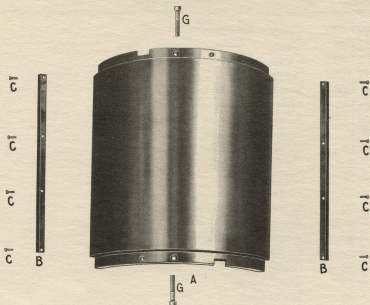
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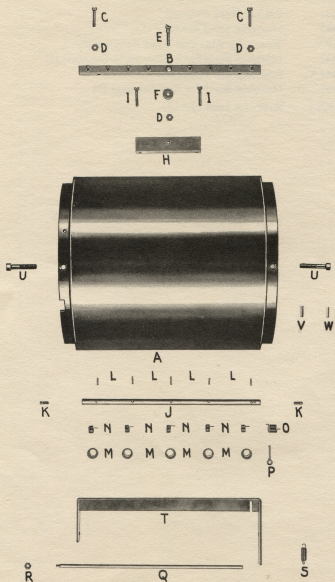
GROUP XVII — CLEANUP ATTACHMENT AND ACCESSORIES

| Code | Part No. | Description |
|------|----------|--|
| A | 221-430 | Cleanup Attachment Body |
| B | 221-431 | Cleanup Attachment Scraper Clamp |
| C | 221-433 | Cleanup Attachment Scraper |
| D | 97-1028 | Nuts for Scraper (2) |
| E | 97-928 | Screws for Cleanup Attachment (2) |
| F | A-13 | Allen Hex. Key for $\frac{3}{16}$ Cap Screws |
| G | A-14 | Allen Hex. Key for $\frac{1}{4}$ Cap Screws |
| H | A-1 | Small Screw Driver |
| I | A-16 | Large Screw Driver |
| J | A-2 | Oil Can 4" Spout |
| K | A-18 | Oil Can 6" Spout |
| L | A-19 | Ink Knife |
| M | A-20 | $\frac{1}{16}$ Hex. T Handle Wrench |
| N | A-3 | Wrench ($\frac{9}{16}$ and $\frac{1}{2}$) |
| O | A-4 | Wrench ($\frac{7}{16}$ and $\frac{3}{8}$) |
| P | A-22 | Cover |
| Q | A-32 | Dampening Form Roll Cover Tool |
| R | A-35 | Clip Extractor |
| S | A-36 | Box of Clips |
| U | 121-1100 | Scraper Clamp Screw (4) |
| V | A-31A | $\frac{1}{4}$ " Allen Head "T" Handle Wrench |



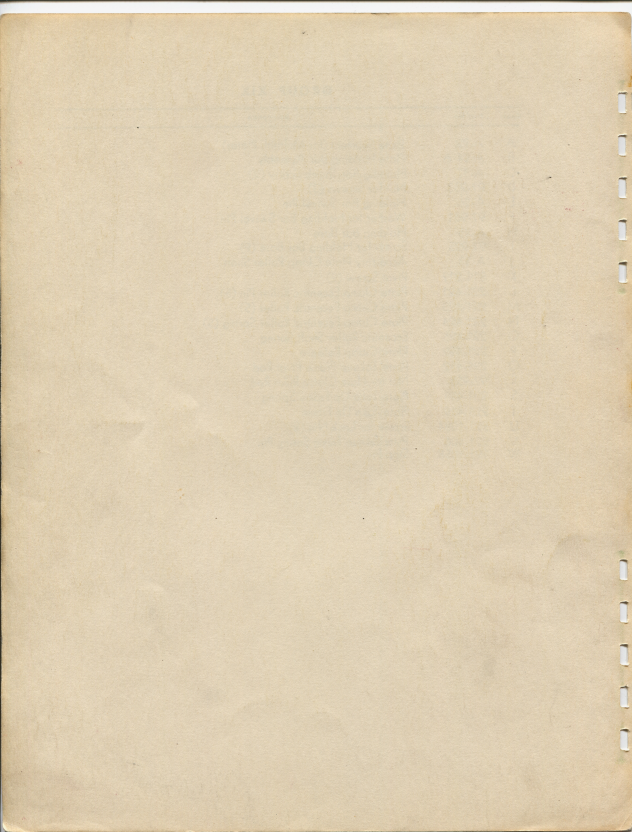
GROUP XVIII - RUBBER AND RAIL SEGMENTS

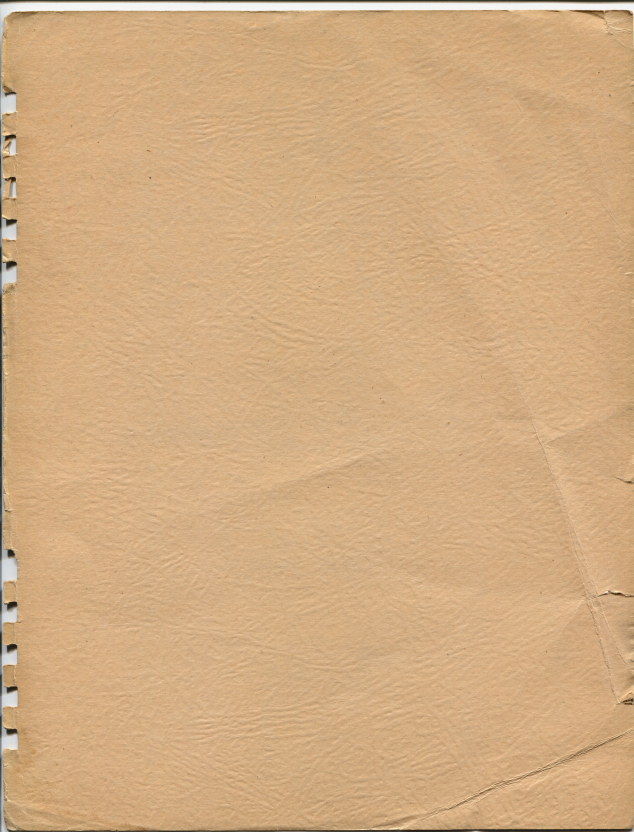
| Code | Part No. | Description |
|------|----------|--|
| A | 221-441 | Rubber Plate Segment |
| B | 221-442 | Marginal Band Retainer (2) |
| C | 121-1076 | Screws for Marginal Band Retainer (8) |
| D | 221-443 | Marginal Band for Rubber Plate Segment (3) |
| E | 221-444A | Rail Segment Assembly |
| F | 221-445 | Marginal Band for Rail Segment (3) |
| G | 221-1084 | Screw for Lock Nut (2) |



GROUP XIX

| Code | Part No. | Description |
|------|----------|---|
| A | A-23 | Plate Segment (for Multilith Plates) |
| B | A-24 A | Plate Holding Bar Assembly |
| C | A-37 | Holding Bar Thumb Screw (2) |
| D | 97-953 | Nut for Screws (3) |
| E | A-26 | Holding Bar Swivel Pin |
| F | 97-961 | Washer for Holding Bar Swivel Pin |
| H | A-25 | Holding Bar Base |
| I | 97-925 | Screw for Holding Bar Base (2) |
| J | A-33 | Accessory Plate Clamp Roller Shaft |
| K | 811-217 | Pivot Screw (2) |
| L | 221-421 | Plate Clamp Eccentric Roller Pin (5) |
| M | 221-423 | Plate Clamp Eccentric Roller (5) |
| N | 221-424 | Plate Clamp Eccentric Roller Spring (5) |
| O | 221-425 | Eccentric Roller Shaft Spring |
| P | 221-422 | Plate Clamp Release |
| Q | 221-412 | Plate Takeup Frame Pivot Rod |
| R | 97-953 | Nut for Plate Clamp Pivot Rod |
| S | 221-411 | Plate Take Up Frame Spring |
| T | 221-419 | Plate Take Up Frame |
| U | 221-1084 | Screw for Lock Nut (2) |
| V | 221-406 | Plate Takeup Frame Spring Pin |
| W | 121-1058 | Stop Pin |





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